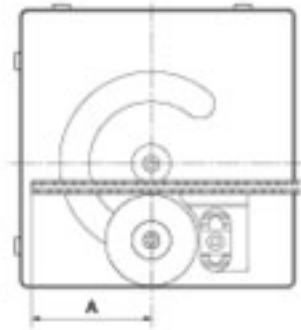


## MB-819 Specifications

### ■ Minimum necessary length for bending



### ■ Combination of standard rollers and collars

Diameter of Rebar	Collar	Roller	Min. Length "A"			Diameter of Rebar	Collar	Min. Length "B"
			90° bend	135° bend	180° bend			
D10	B10 (φ39)	B10 (φ138)	66mm	86mm	106mm	D10	B10 (φ39)	132mm
D13	B13 (φ52)	B13(φ118)	84mm	110mm	130mm			
D16	B16 (φ64)	B16 (φ100)	99mm	131mm	163mm			
D19	B19 (φ76)	B19 (φ80)	118mm	156mm	194mm			
						D13	B13(φ 52)	151mm
						D16	B16(φ 64)	169mm

### ■ Combination of rollers and collars for 5D (Optional)

Diameter of Rebar	Collar	Roller	Min. Length "A"		
			90° bend	135° bend	180° bend
D16	516 (φ80)	516 (φ84)	120mm	157mm	195mm
D19	519 (φ95)	519 (φ61)	138mm	183mm	228mm